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मानक

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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 4481 (1988): Duck-bill Pliers [PGD 5: Assembly Hand Tools]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

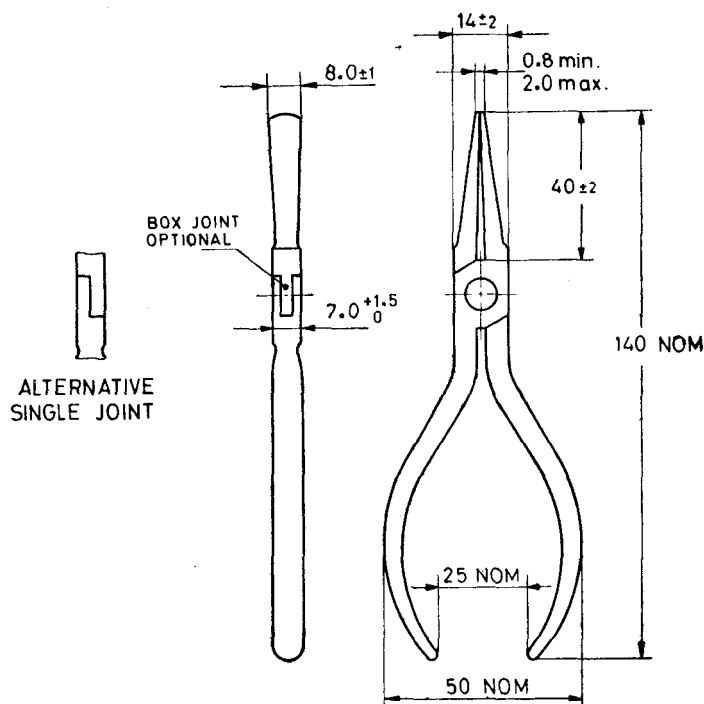
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Indian Standard
**SPECIFICATION FOR
DUCK-BILL PLIERS**

(First Revision)

- 1. Scope** — Covers the dimensions and other requirements of duck-bill pliers.
- 2. Nomenclature** — For the purpose of this standard, nomenclature shall be as given in IS : 11526-1986 'Nomenclature for pliers, pincers and nippers'.
- 3. Shape and Dimensions** — Shall be as given below.



All dimensions in millimetres.

- 4. Hardness** — The pliers shall have hardness in the range of 350 to 550 HV.
- 5. General Requirements** — The materials, manufacture, workmanship and finish, tests, preservation and packing, and sampling shall conform to IS : 2615-1981 'General requirements for pliers, pincers and nippers (first revision)'.
- 6. Test** — In addition to tests specified in IS : 2615-1981, the following tests shall also be carried out.
 - 6.1 Handle Load Test** — The duck-bill pliers shall be tested for permanent set in a manner specified in IS : 2615-1981. The permanent set shall not exceed 1 mm when a moment of 40 Nm is applied on the pliers.
- 7. Marking** — The pliers shall be clearly and legibly stamped with manufacturers name, initials and/or recognized trade-mark. Year of manufacture, if required by the purchaser, may also be stamped.
 - 7.1 Certification Marking** — Details available with the Bureau of Indian Standards.

Adopted 6 May 1988

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EXPLANATORY NOTE

Duckbill pliers are used for the assembly operations generally in instrumentation industries. These pliers do not have either cutting action or any tearing action. This standard lays down only certain functional dimensions of importance, without imposing any limitation of details of design. This standard was initially formulated in 1986. This revision has been taken up in order to modify the dimensions and hardness values. The box type of joint shown earlier has been made optional since not being in current practices. These changes have been done in order to align them with current manufacturing practices.

While preparing this specification, assistance has been taken from the data supplied by the manufacturers of the product and the following Standard.

BS : 3087-1959 Pliers, Pincers, and Nippers issued by the British Standard Institution (U K).